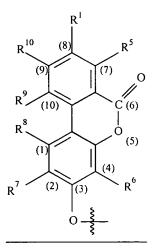
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in this Application:

Listing of Claims:

- 1. (Currently amended) A composition of isolated dibenzo-alpha-pyrone chromoproteins (DCPs) having a molecular weight of about 2 to about 20 KD-comprising consisting of:
 - a. dibenzo-alpha-pyrones or their derivatives;
 - b. phosphocreatine;
 - c. carotenoid and indigoid chromo-peptides of molecular weights of about ≤
 2 KD, wherein said chromo-peptides comprise of a carotenoid moiety,
 said carotenoid moiety is astaxanthin and equivalents; and
 - d. lipids having fatty acyl esters of glycerol, wherein said carbon chain length is about C_{14} to about C_{24} .

wherein said dibenzo-alpha-pyrones have the structure of formula (I)



(I)

wherein:

R¹ is selected from the group consisting of H, OH, O-acyl, and O-amino-acyl; and R⁵, R⁶, R⁷, R⁸, R⁹, and R¹⁰ are independently selected from the group consisting of H, OH, O-acyl, O-amino-acyl, and fatty acyl groups,

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wherein said phosphocreatine is attached to the 3- or 8-position of said dibenzo-alpha-pyrones via an ester linkage.

- 2. (Canceled).
- 3. (Canceled).
- 4. (Canceled).
- 5. (Canceled).
- 6. (Canceled).
- 7. (Canceled).
- 8. (Canceled).
- 9. (Currently amended) A composition according to claim 8-1 wherein said polyunsaturated the fatty acid substituents are polyunsaturated and have a degree of unsaturation of one to six.
- 10. (Original) A composition according to claim 9 wherein said polyunsaturated fatty acids are eicosapentaenoic acid and / or docosahexaenoic acid.
 - 11. (Canceled).
 - 12. (Canceled).
- 13. (Original) A skin care, hair care, pharmaceutical, or nutritional or veterinary formulation comprising the composition of claim 1 present therein in an amount of about 0.05 to about 50% by weight.
- 14. (Currently amended) A skin care or skin protection formulation according to claim 13 where said skin care or skin protection formula is in the form of a lotion, cream, gel or spray, and said composition is present in an amount of about 0.05 to about 5% by weight.
 - 15. (Canceled).
 - 16. (Canceled)
- 17. (Currently amended) A skin care or <u>skin</u> protection formulation according to claim 14, further comprising a cosmetically acceptable carrier and at least one cosmetic adjuvant selected from the group consisting of sunscreens, antioxidants, preservatives, self-tanning agent, perfumes, oils, waxes, propellants, waterproofing agents, emulsifiers, thickeners, humectants, and emollients.

- 18. (Canceled).
- 19. (Canceled).
- 20. (Canceled).
- 21. (Canceled).
- 22. (Canceled).
- 23. (Canceled).
- 24. (Canceled).
- 25. (Canceled).
- 26. (Currently amended) A composition <u>comprising</u> of isolated dibenzoalpha-pyrone chromoproteins (DCPs) of formula (II):

$$R^{10}$$
 R^{10}
 R

wherein:

R¹ is selected from the group consisting of H, OH, O-acyl, and O-amino-acyl;

R² is selected from H and CH₃;

R³ is selected from H and fatty acids;

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- R4 is selected from H and fatty acids; and
- R⁵, R⁶, R⁷, R⁸, R⁹, and R¹⁰ are independently selected from the group consisting of H, OH, O-acyl, O-amino-acyl, and fatty acyl groups.
 - 27. (Canceled).
 - 28. (Canceled).
- 29. (Original) A skin care, hair care, pharmaceutical, or nutritional formulation comprising the composition of claim 26 present therein in an amount of about 0.05 to 50% by weight.
 - 30-38. (Canceled).
- 39. (New) A skin care or protection formulation according to claim 29 where said skin care or protection formula is in the form of a lotion, cream, gel or spray, and said composition is present in an amount of about 0.05 to about 5% by weight.
- 40. (New) A composition of dibenzo-alpha-pyrone chromoproteins (DCPs) isolated from foraminifera fossils or coastal molluscs in a pharmaceutical, nutritional, or skin care or hair care formulation comprising isolated dibenzo-alpha-pyrone chromoproteins (DCPs) in an amount of about 0.05 to about 50% by weight.